

WHAT IS CLAIMED IS:

1. In a computer network, a method comprising:
at a client-side redirector, receiving a write or read
request directed to a file on a remote network server, the
5 write or read request directed to communicating an amount of
file data that exceeds a maximum buffer size allowed for
communicating file data in a request to the remote server;
logically separating the write or read request into a
plurality of file section requests that each do not exceed the
10 maximum buffer size;
sending each of the file section requests to the remote
network server, at least one file section request being sent
without awaiting a status response resulting from a previously
sent file section request;
15 tracking status information for the file section
requests; and
if the status information from the file section requests
indicates success, returning a success indication in response
to the write or read request.

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2. The method of claim 1 further comprising, receiving the maximum buffer size from the remote server.

3. The method of claim 1 wherein tracking the status 5 information comprises, receiving a response corresponding to one of the file section requests, evaluating the response, and when the response indicates success, accounting for the successful response.

10 4. The method of claim 3 further comprising, allocating an array of entries for the plurality of file section requests, wherein each file section request corresponds to an entry in the array, and wherein accounting for the successful response includes, determining an entry in the array 15 corresponding to the successful response, and adjusting the entry to indicate success.

15 5. The method of claim 3 wherein determining an entry in the array corresponding to the successful response 20 comprises, associating a value with each file section request that differentiates that file section request from other file section requests, and determining the value by evaluating the successful response.

6. The method of claim 5 wherein the array comprises a bitmap, and wherein adjusting the entry to indicate success comprises clearing at least one bit to zero, such that the
5 status information from the file section requests indicates success when the entire bitmap equals zero.

7. The method of claim 5 further comprising,
10 calculating a size for the array based on the amount of file data.

8. The method of claim 1 further comprising,
15 determining that the write or read request exceeds the maximum buffer size allowed.

9. A computer-readable medium having computer-executable instructions for performing the method of claim 1.

10. In a computer network having a file server, a
20 client-side system, comprising:

an application program that issues an I/O request corresponding to a file on a file server, the I/O request corresponding to an amount of file data that exceeds an

allowed amount that can be exchanged with the file server in a single request; and

a network redirector having an associated pipeline I/O mechanism, configured to:

- 5 1) receive information corresponding to the I/O request;
- 10 2) send a plurality of sectioned I/O requests to the network server to satisfy the I/O request received at the application, at least one of the requests sent without awaiting status information from the server for a previously sent request, and each sectioned I/O request corresponding to file data that does not exceed the allowed amount;
- 15 3) track status information for each of the sectioned I/O requests; and
- 4) determine a status to return to the application program based on the tracked status information.

- 20 11. The system of claim 10 wherein the status to return to the application corresponds to an error if the status information of any one of the sanctioned I/O requests indicates an error.

12. The system of claim 10 wherein the status to return to the application corresponds to a success if the status information of every one of the sanctioned I/O requests indicates a success.

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13. The system of claim 10 wherein the network redirector tracks the status information by updating an entry corresponding to a sectioned I/O request in an array when the status information for the sectioned I/O request is known.

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14. The system of claim 13 wherein the array comprises a bitmap.

15. The system of claim 10 wherein the redirector and
15 file server communicate via protocol comprising SMB.

16. The system of claim 10 wherein the redirector and
file server communicate via protocol comprising CIFS.

20 17. In a computer network, a method comprising:
at a client-side redirector, receiving a write request to
write file data to a file on a remote network server, the
write request indicating an amount of data to be written that

1 exceeds a maximum size allowed per request by the remote
2 server;

3 logically separating the write request into a plurality
4 of partial write requests that each do not exceed the maximum

5 buffer size;

6 allocating a data structure containing an entry for each
7 file section request;

8 sending each of the file section requests to the remote
9 network server, at least one request being sent without

10 awaiting a status response that results from a previously sent
11 request;

12 evaluating responses from the file system, and for each
13 successful response that corresponds to a partial write
14 request, updating the array at a location therein that
15 corresponds to that file section request; and

16 returning a success indication when the array indicates
17 that each of the partial write requests was successful.

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